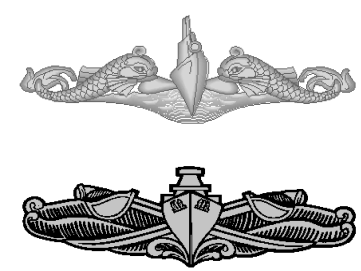




Nuclear Field Career Development

Opportunities to **STAY NAVY**
in the Nuclear Propulsion
Program

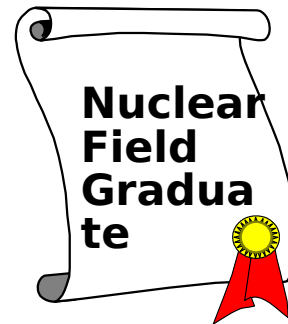
Rev 1/18/01

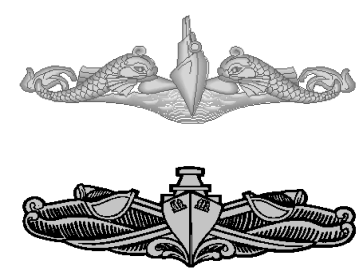


Nuclear Field Career Development *Opportunities to STAY NAVY*

**Congratulations on your significant accomplishment...
Graduation from the Navy's premier enlisted training pipeline**

- **Fleet Overview**
- **Your First Sea Tour**
- **Future Assignments**
- **Career Path**
- **Education Opportunities**
- **Monetary Compensation**





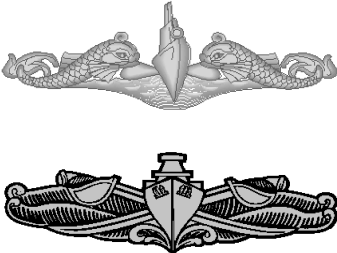
U.S. Submarine and Surface Forces

When a crisis erupts and the President asks, "Where's the nearest carrier?"

Partners in Peace and War

A submarine is already on station, and probably has been for some time





Crew Distribution

End of Fiscal Year 2002



PAC NORWEST

SSN: 4
SSBN: 18
CVN: 2

San Diego, CA

DOLPHIN
CVN: 2
SSN: 4

Pearl Harbor, HI

SSN: 17

Guam

SSN: 2

PTSVD, NH

SSN: 2

**New
London, CT**

NR-1
SSN: 15

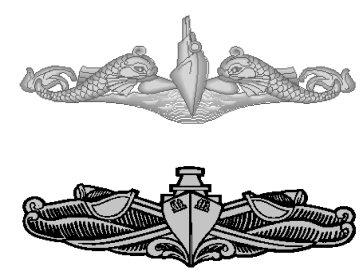
SSN/PCU: 1

**Hampton
Roads, VA**

CVN: 5
SSN: 10
SSBN: 2
CVN/PCU: 1
SSN/PCU: 2

**Kings Bay,
GA**

SSBN: 6



Nuclear Field

Your First Sea Tour

■ Operations and Maintenance--Primary Responsibility

■ Training and Qualifications

- Initial (operator) vs.. advanced (superior)

■ Advancement

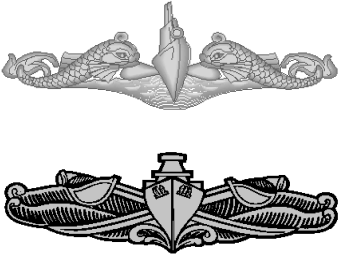
- STAR reenlistment provides:
 - » 100% advancement opportunity to E-6
 - » “2 for the price of 1” 4 yr reenlistment
 - » Only 2 additional years of obligated service (all on shore)

■ Reenlistment/Extensions

- Stay/Leave Decision--Obligate to shore

■ The Key--Take charge of your career development





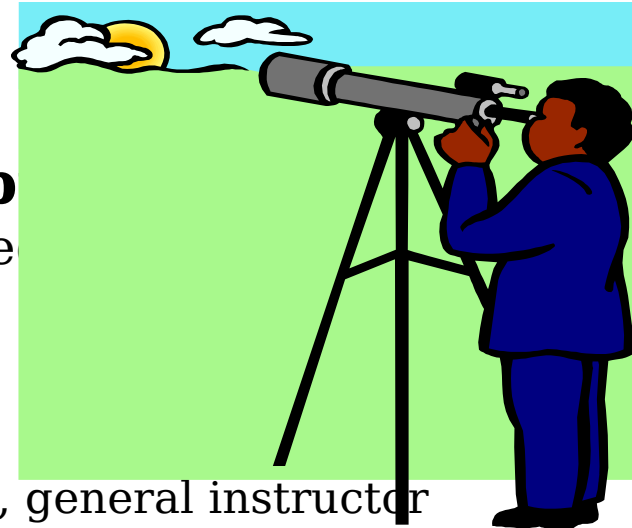
Nuclear Field *Future Assignments*

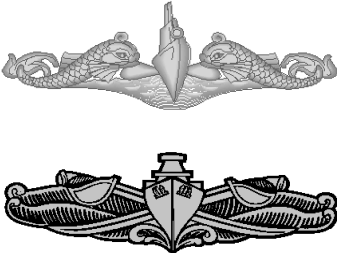
■ Must reenlist Zone “A” to get Shore Duty

- Make your career stay/leave decision while on shore
 - » “Normal” life experience; opportunity to better judge what/where you prefer to take your life
 - » Schools enroute: 3373--ETMS, 3376--RCTQS, 3377--Nuclear Planner
 - » Chance at overseas travel (MAC flights)
 - » New residence/community

■ Looking Ahead--First Shore Duty op

- Prescribed shore tour length/nuclear enliste
- Types of duty, locations, variety of options
 - » Nuclear Instructor--NFAS, NPS, NPTU
 - Most important nuclear enlisted shore duty
 - Master training specialist
 - » Other--Tender duty, NRMD, SIMA, recruiting, general instructor duty and shore staff assignments
- CONSUBPAY ashore requires 14 month return to sea commitment
 - » Can mean not forgoing \$7,000-\$14,000 over a 3 year shore duty tour



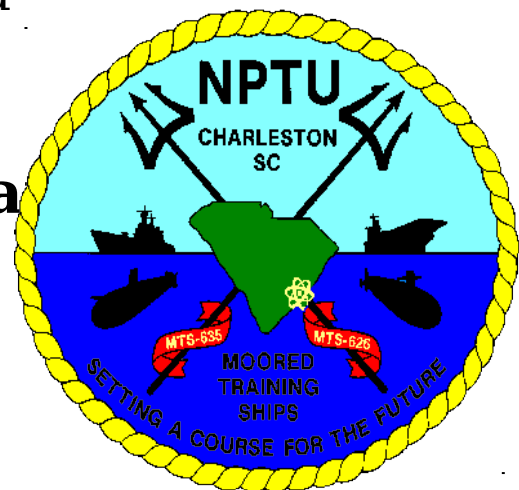


Nuclear Field

Future Assignments-- continued

Why Prototype?

- A priority billet; extremely important to success of the Navy's Nuclear Power Program
- Demanding and rewarding job
 - Feeling of worth; part of a team; clearly focused objectives
- Opportunity to mentor junior Sailors
- Only duty which allows a submarine Sailor to qualify and stand watch as EOOW
- Outstanding opportunities
 - For advancement
 - For advanced education
- Great environment for the family

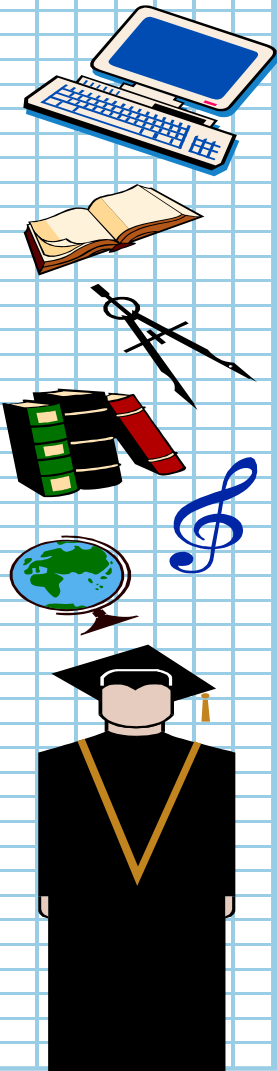


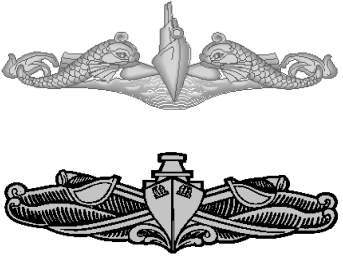


Nuclear Field

Future Assignments-- continued

- Set up for next sea tour, advancement, perhaps even civilian job/naval reserves
- Advanced education opportunities
- Follow-on sea/shore tours per career path
 - Operator vs. Supervisor
 - Apprentice vs. Journeyman vs. Master
 - Officer/commissioning programs
 - » LDO, Warrant, USNA, NROTC and STA 21
 - Junior Enlisted (E-4/5) vs. Leading First (E-6) vs. Leading Petty Officer (E-7/8) vs. EDMC/RSEA (E-8/9) vs. COB/CMC (E-9)
- NAVET statement:
 - “The challenge of the Nuclear Navy and the personnel of that professional ability is missed.... The other benefits that the Navy offers for me and my family outweigh any that I have found in the civilian community.”





Nuclear Field *Education Opportunities*

■ What should you be looking to gain out of advanced education:

- Degree, commission, better educated Sailor, pride/self-assurance
- Better positioned for military and civilian careers

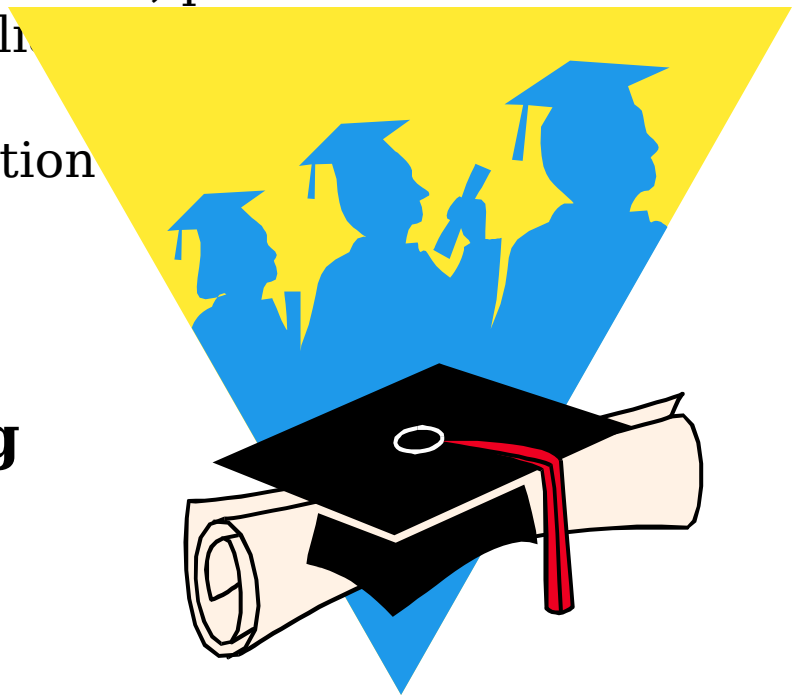
■ Navy College Program (NCP)

- Matched with previous nuclear education
 - » Rating Roadmaps
 - » SMART Transcripts
- 2 year vs. 4 year degree
- Distance Learning; PACE program

■ Monetary Support and Funding

- Tuition Assistance (TA)
 - » Now covers 100% of tuition costs!
- Montgomery GI Bill (MGIB)
- Navy College Fund (NCF)
- Other monetary support, such as EB

■ Charleston and Ballston Spa Education Opportunities





42 Semester Hours



15 Semester Hours



64 to 76 Semester Hours



Sample Nuclear Enlisted Credit Acceptance



30 Semester Hours

Over 41 Semester Hours

Amount awarded varies by college:



33 Semester Hours



13 Semester Hours



New School University

About 90 Semester Hours

Nuclear Field Career Paths *Electronics Technician*



30		<u>SHORE TOUR (36 MONTHS) NEC: 0000, 3359/89, 33X3</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF BILLET: CMC/STAFF/INSTRUCTOR/MAINTENANCE SUPERVISOR
25		<u>SEA TOUR (36 MONTHS) NEC: 3359/89, 3363/93</u> DUTY STA: SSN/SSBN (3363); CVN (3393) BILLET: CMC/COB/DEPARTMENT LCPO
20		<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X3</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE BILLET: INSTRUCTOR/MAINTENANCE SUPERVISOR/STAFF/GENERAL
E-9		<u>SEA TOUR (36-48 MONTHS) NEC: 33X3</u> DUTY STA: SSN/SSBN (3363); CVN (3393) BILLET: DEPARTMENT LCPO / DIVISION LCPO
E-8		<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X3</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE BILLET: INSTRUCTOR/SHIP AND COMPONENT MAINTENANCE TECH/STAFF/GENERAL/RECRUITER
E-7		<u>SEA TOUR (60 MONTHS) NEC: 33X3</u> DUTY STA: SSN/SSBN (3363); CVN (3393) BILLET: DIVISION LPO / ASSISTANT LPO
E-6		<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X3</u> DUTY STA: NPTU/NFAS/NPS/IMA/GENERAL SHORE BILLET: INSTRUCTOR/MAINT. TECH/GENERAL/RECRUITER
E-5		<u>SEA TOUR (36-60 MONTHS) NEC: 33X3</u> DUTY STA: SSN/SSBN (3353); CVN (3383) BILLET: STEAM/REACTOR PLANT OPERATOR/MAINT. TECH GOAL: SENIOR IN RATE AND WARFARE QUALIFICATION
E-4		<u>SHORE TOUR/TRAINING (82 WEEKS) NEC: 9901</u> DUTY STA: RTC→NFAS→NPS→NPTU SOME WILL HAVE 24 MONTH STAFF PICKUP TOUR AT NPTU
0		

Nuclear Field Career Paths *Electrician's*



30		<u>SHORE TOUR (36 MONTHS) NEC: 0000, 3359/89, 33X4</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF BILLET: CMC/STAFF/INSTRUCTOR/MAINTENANCE SUPERVISOR
25		<u>SEA TOUR (36 MONTHS) NEC: 3359/89, 3364/94</u> DUTY STA: SSN/SSBN (3364); CVN (3394) BILLET: CMC/COB/DEPARTMENT LCPO
20		<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X4</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE BILLET: INSTRUCTOR/MAINTENANCE SUPERVISOR/STAFF/GENERAL
E-9		<u>SEA TOUR (36-48 MONTHS) NEC: 33X4</u> DUTY STA: SSN/SSBN (3364); CVN (3394) BILLET: DEPARTMENT LCPO / DIVISION LCPO
15	E-8	<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X4</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE BILLET: INSTRUCTOR/SHIP AND COMPONENT MAINTENANCE TECH/STAFF/GENERAL/RECRUITER
10	E-7	<u>SEA TOUR (60 MONTHS) NEC: 33X4</u> DUTY STA: SSN/SSBN (3364); CVN (3394) BILLET: DIVISION LPO / ASSISTANT LPO
5	E-6	<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X4</u> DUTY STA: NPTU/NFAS/NPS/IMA/GENERAL SHORE BILLET: INSTRUCTOR/MAINT. TECH/GENERAL/RECRUITER
	E-5	<u>SEA TOUR (36-60 MONTHS) NEC: 33X4</u> DUTY STA: SSN/SSBN (3354); CVN (3384) BILLET: STEAM/REACTOR PLANT OPERATOR/MAINT. TECH GOAL: SENIOR IN RATE AND WARFARE QUALIFICATION
0	E-4	<u>SHORE TOUR/TRAINING (81 WEEKS) NEC: 9901</u> DUTY STA: RTC→NFAS→NPS→NPTU SOME WILL HAVE 24 MONTH STAFF PICKUP TOUR AT NPTU

Nuclear Field Career Paths



30

25

20

15

10

5

0

E-9

SHORE TOUR (36 MONTHS) NEC: 0000, 3359/89, 33X5(6)
DUTY STA: NPTU/NFAS/NPS/IMA/STAFF
BILLET: CMC/STAFF/INSTRUCTOR/MAINTENANCE SUPERVISOR

SEA TOUR (36 MONTHS) NEC: 3359/89, 33X5(6)
DUTY STA: SSN/SSBN (3365(6)); CVN (3395(6))
BILLET: CMC/COB/DEPARTMENT LCPO

SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X5(6)
DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE
BILLET: INSTRUCTOR/MAINTENANCE SUPERVISOR/STAFF/GENERAL

SEA TOUR (36-48 MONTHS) NEC: 33X5(6)
DUTY STA: SSN/SSBN (3365(6)); CVN (3395(6))
BILLET: DEPARTMENT LCPO / DIVISION LCPO

E-8

SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X5(6)
DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE
BILLET: INSTRUCTOR/SHIP AND COMPONENT MAINTENANCE
TECH/STAFF/GENERAL/RECRUITER

E-7

SEA TOUR (60 MONTHS) NEC: 33X5(6)
DUTY STA: SSN/SSBN (3365(6)); CVN (3395(6))
BILLET: DIVISION LPO / ASSISTANT LPO

E-6

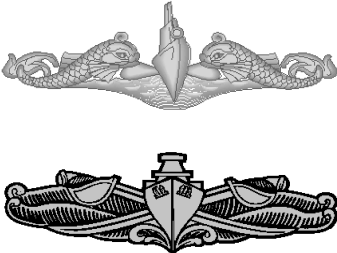
SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X5(6)
DUTY STA: NPTU/NFAS/NPS/IMA/GENERAL SHORE
BILLET: INSTRUCTOR/MAINT. TECH/GENERAL/RECRUITER

E-5

SEA TOUR (36-60 MONTHS) NEC: 33X5(6)
DUTY STA: SSN/SSBN (3365(6)); CVN (3385(6))
BILLET: STEAM/REACTOR PLANT OPERATOR/MAINT. TECH
GOAL: SENIOR IN RATE AND WARFARE QUALIFICATION

E-4

SHORE TOUR/TRAINING (71 WEEKS) NEC: 9901
DUTY STA: RTC→NFAS→NPS→NPTU
SOME WILL HAVE 24 MONTH STAFF PICKUP TOUR AT NPTU



Nuclear Field *Monetary Compensation*

■ The wide sea of military compensation

- Regular Pay and Allowances: Base Pay, BAH, BAS
- Special Pays: SDAP, Career Sea Pay, SUBPAY
- Bonuses: EB, SRB

■ Navy compensation initiatives

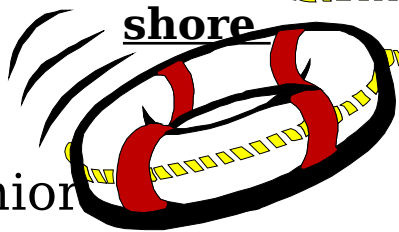
- Annual pay raises
- 2 year longevity pay increases
- Occasional targeted pay raises
 - » Greater than 4% last two fiscal years
- Steady income
- Recent SUBPAY increases targeted at junior

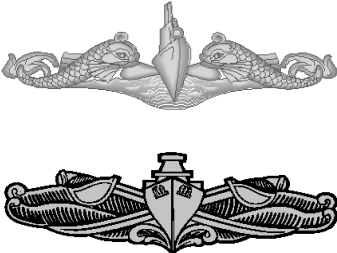
■ Comparison of pay and compensation, including typical bonuses

- Typical annual salary (assumes on sea duty & >2 y
 - » Nuclear-Trained Submariner (E-5)--\$41,800
 - » Nuclear-Trained Surface Sailor (E-5)--\$38,800
 - » Non-Nuclear Surface Sailor (E-4)--\$27,894

A nuclear-trained Sailor who STAR reenlists at the 2 year

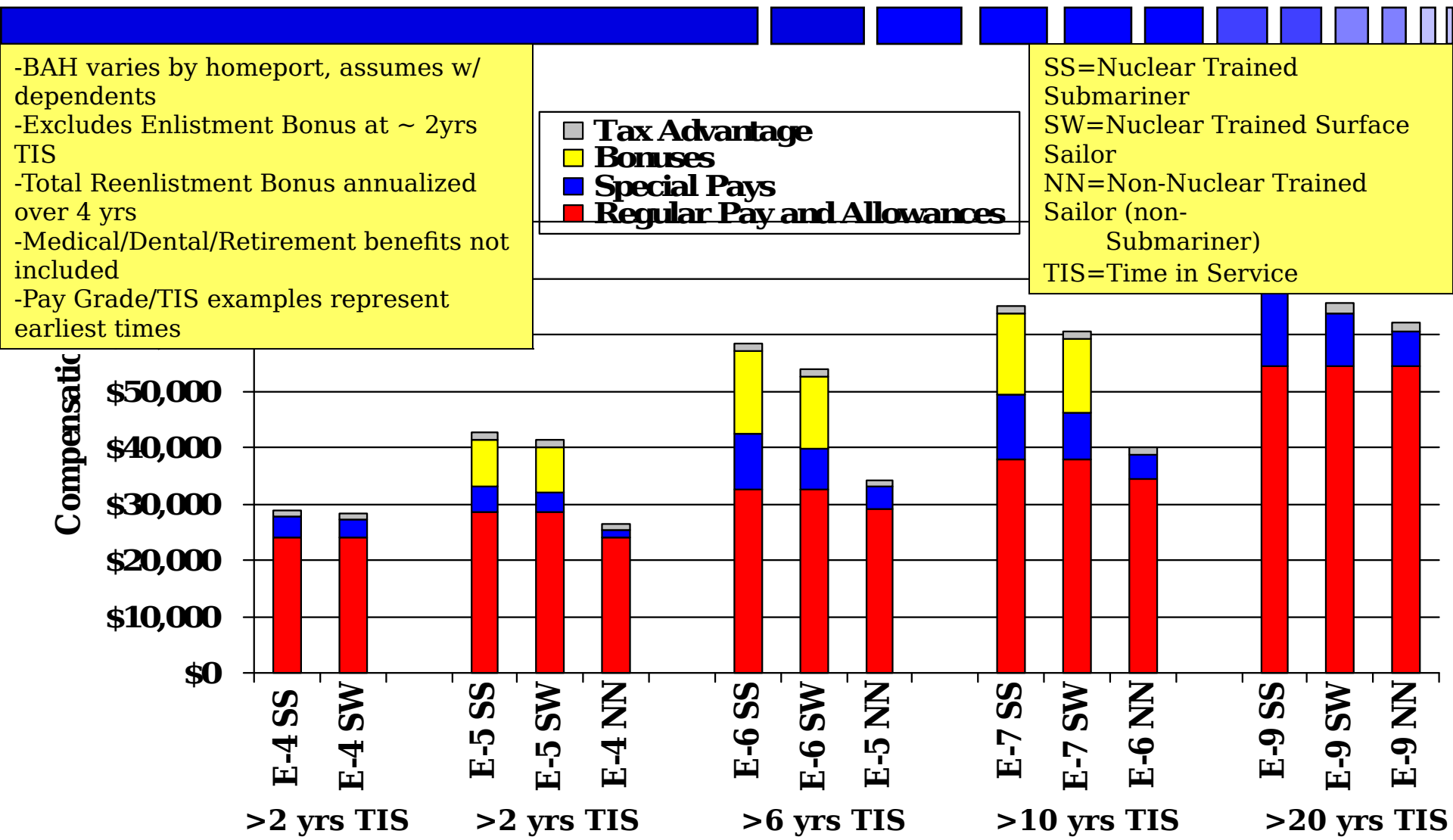
point, earns ~\$35,000 more than one who does not reenlist; the cost is 2 years on shore duty

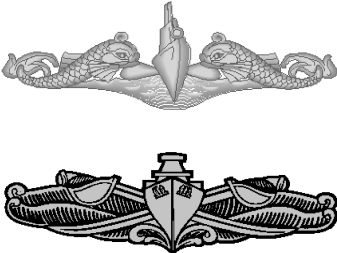




Pay and Allowances

As of January 2001





Nuclear Field Monetary Compensation-- continued

■ Regular Military Retirement Pay Calculations

- At today's monthly rates, you would require in equivalent investments:
 - » E-7 (@20 yrs TIS)--\$147,973 (assumes 10% annual return, 35 payment years)
 - » E-9 (@26 yrs TIS)--\$275,579
- To retire in 2019 (as an E-7) or in 2025 (as an E-9), you will require:
 - » E-7--\$264,277 (equates to investing \$44,012 now or \$440 monthly for 18 yrs)
 - » E-9--\$495,819 (equates to investing \$45,429 now or \$417 monthly for 24 yrs)
- Note: Retirement pay is free from

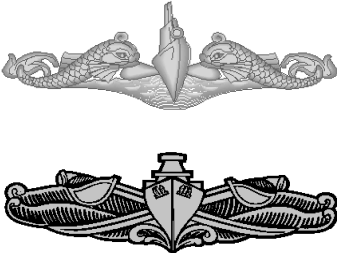
■ Investments

- A good use for your bonuses
- The power of Dollar Cost Averaging
- Thrift Savings Plan option
 - » Pre-tax & tax deferred
- IRAs
 - » Tax deferred or non-taxable
- Regular investments and savings

■ Insurance and Wills

- Protecting your family/assets

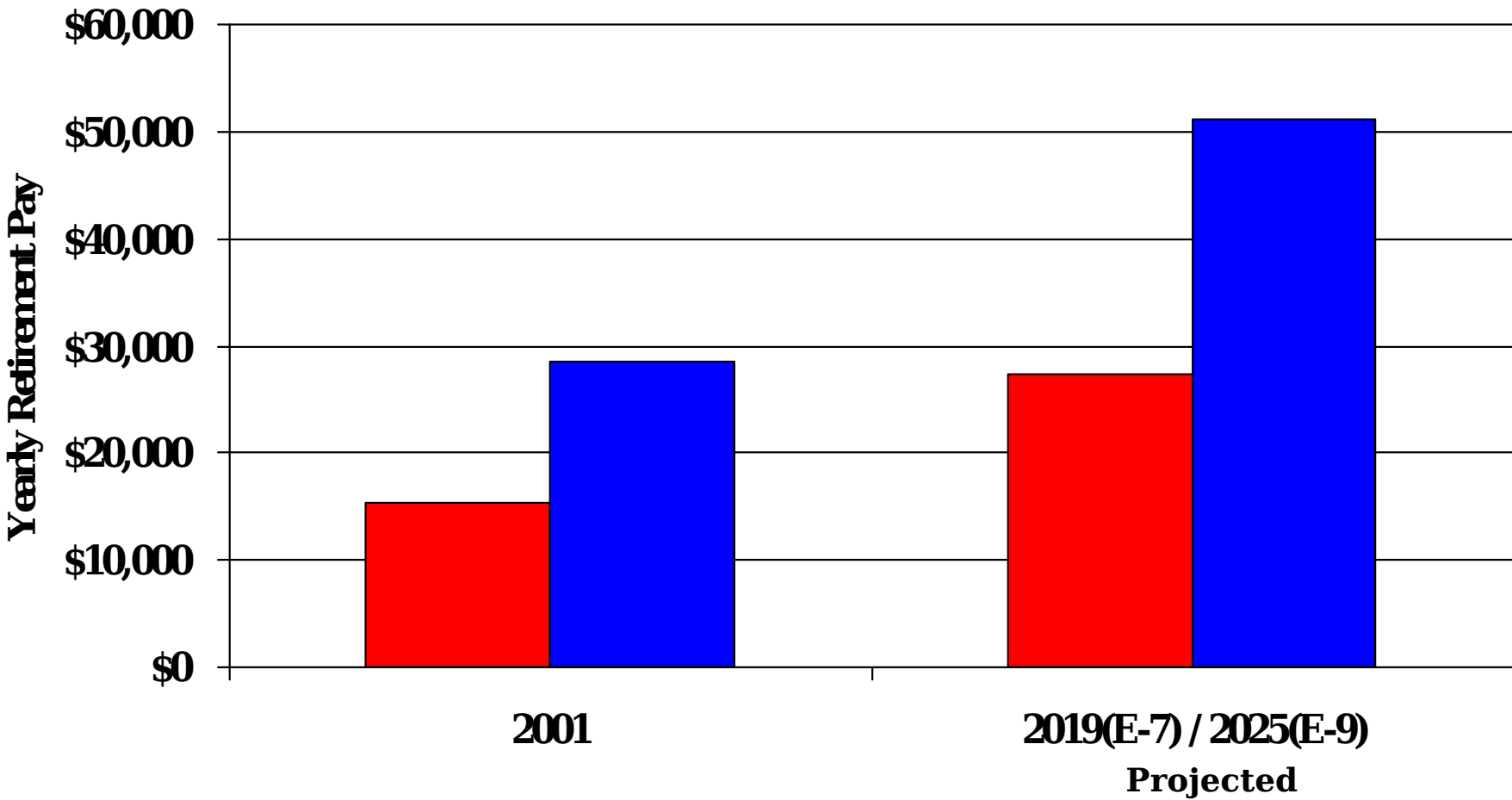




Military Retirement Benefits



■ E-7 at 20 YRS TIS ■ E-9 at 26 YRS TIS



Serving with the World's Finest Sailors...



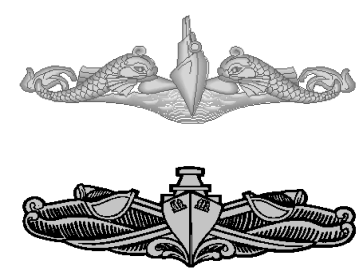
...Everyday!



Questions?



***America's Nuclear Force -
Transitioning to a new Century of***



Backup



America's Submarine Fleet



➤ SSN - Fast Attack Submarine

- Multi-Faceted
- Multi-Mission Capable
- Approximately 58 Crews

➤ SSBN - Ballistic Missile Submarine

-TRIDENT

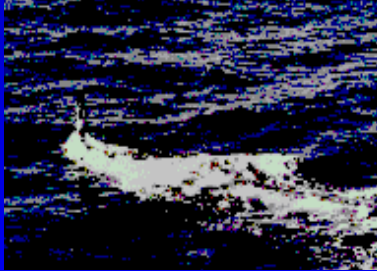
- 100% of Survivable Warheads
- 54% of National Strategic Capability
- 34% of Strategic Budget
- Currently 36 Crews

34% of the Nation's Warships

12% of the Navy's Budget

7% of Navy's Manpower

Submarines are... ...*Multi-Mission Platforms!*



PEACE

**Intelligence
Preparation of
the Battlefield**

Pre-Hostilities

**Conflict
Escalation**

WAR

Precision Strike

Anti-Submarine Warfare

Anti-Ship Warfare

Offensive Mining

SOF Insertion

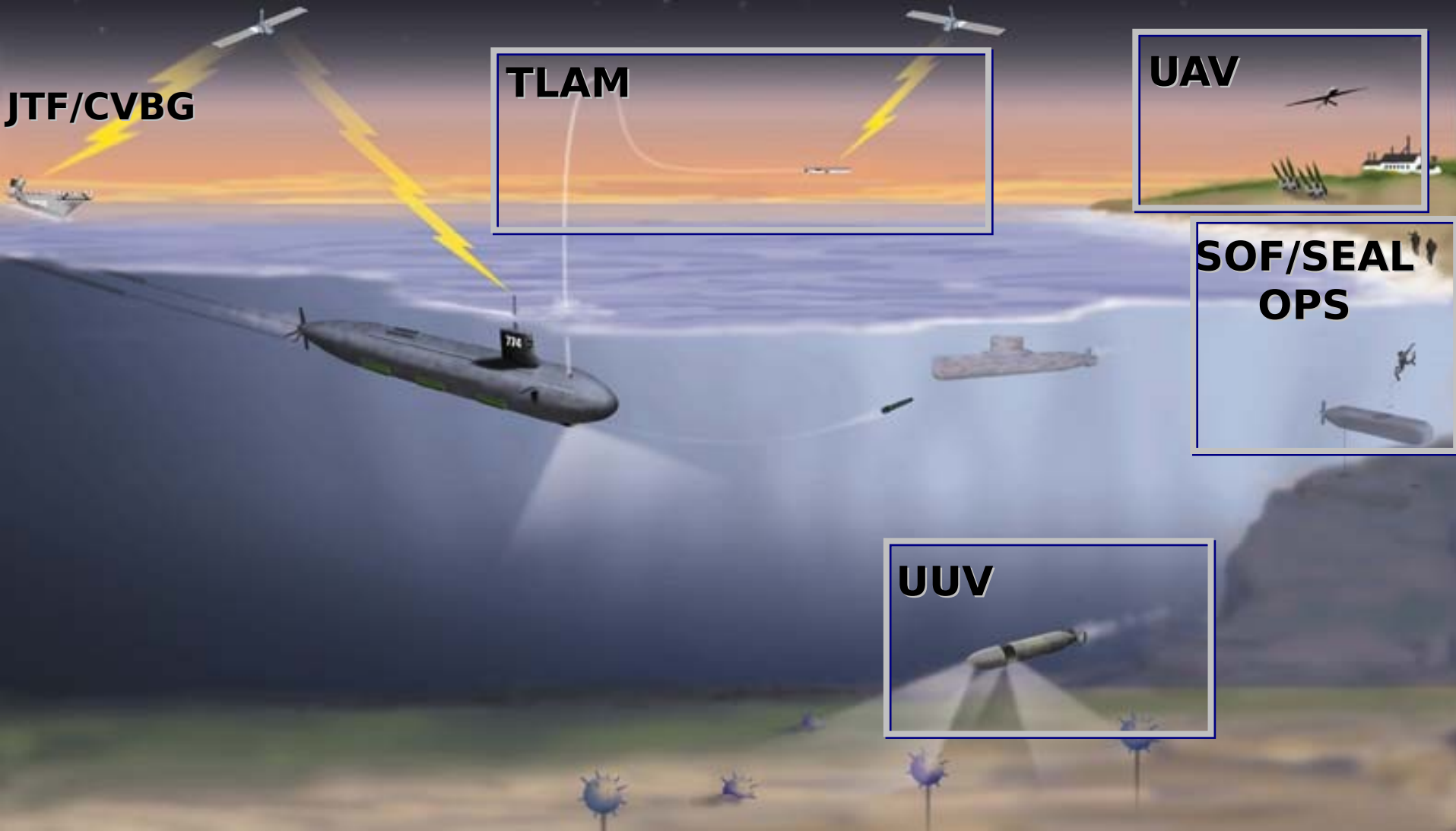
Mine Reconnaissance

Intel/Surveillance/Re

Strategic Deterrence

The Submarine Force of the 21st Century

Stealth Is The Enabler



Submarine Headquarters



Surface Warfare Operations



East Pacific

Carribbean/
Haiti Operations

South Med Sea

South Atlantic/
UNITAS

Adriatic Sea

Red Sea

Somalia

Black Sea

Arabian Gulf

Indian Ocean

Sea of Japan
& Yellow Sea

- ♦ Forward Deployed to the World's Hotspots
- ♦ Participating in Every Navy Action



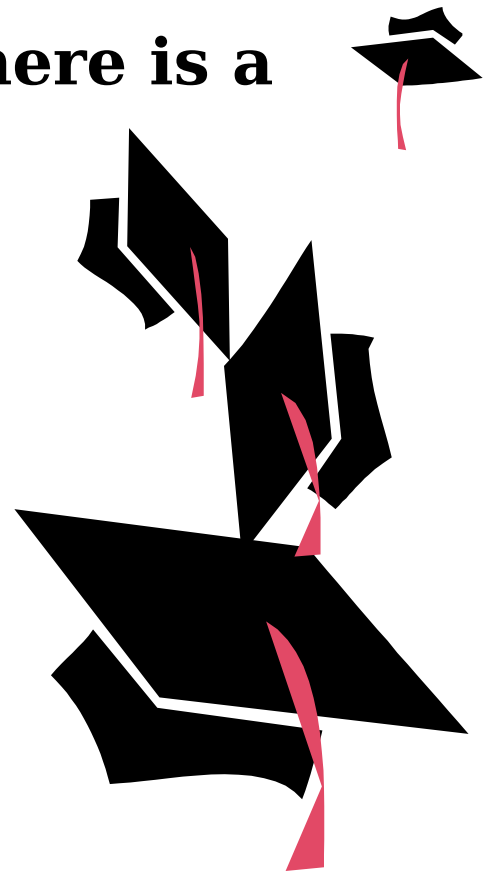
American Council on Education (ACE)

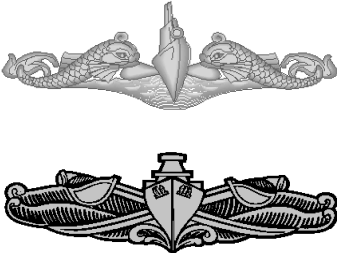


■ Purpose of ACE

- Evaluate military education and recommend equivalent college or vocational credit

■ Re-evaluation is required whenever there is a change in curriculum or location





ACE Recommendations for NNPTC



NFAS	CREDIT HRS			NPS	CREDIT-HRS		
	ET	EM	MM		ET	EM	MM
Tech Math w/Algebra	3	3	3	Technical Math	4	4	4
DC Circuits	3	3		General Physics	5	5	5
AC Circuits	3	3		Ht x-fer and fluid flow	5	5	5
Digital/microprocessor	4			Nuc Rx Engineering	3	3	3
Electrical troubleshooting and repair	3	3		Atomic/nuclear physics	1	1	1
Solid state devices	4			Rad Protection tech'y	1	1	1
Electrical machinery		4		Gen'l chemistry/mat'ls	3	3	3
Basic Electronics		4		DC circuits	2	2	
Mechanical Physics			3	AC circuits	2	2	
Steam plant operations			3	Digital principles	2	2	
Basic I&C	4			Electric machines	2	2	
				Applied thermo/Ht xfer			3
				Power plant systems			
				Basic electricity			3
Total	24	20	9		30	30	29



ACE Recommendations for NPTU

NPTU

CREDIT HRS

ET EM MM

Oral Communications

3 3 3

Industrial Safety

3 3 3

Basic Health Physics

3 3 3

Introduction to Power Systems

3 3 3

Reactor Systems Practicum (U)

8 8

Electrical Systems Practicum (U)

6

Mechanical Systems Practicum (U)

8

Reactor Power Systems (U)

3 3

Troubleshooting Electrical Systems

3

Troubleshooting Mechanical Systems (U)

3

Total 23 21 23

Totals:

ET - 86

EM - 85

MM - 75

ELT - 85

ELT School (6 sh)

Chemistry

3

Health Physics

3

ETMS (9 sh)

Basic

2

Electronic Service Maintenance System

4

Electronic Systems Maintenance Testing

3



Sailor-Marine American Council on Education Registry Transcript (SMART)



■ **Students receive unofficial SMART at graduation**

■ **Delays:**

- School changes take up to six months or more after re-evaluation is complete
- About three months to update official transcript after student graduates